



nyloflex® FTL Digital

The perfect choice for fluting reduction in corrugated post print on test liners with recycled fibers



- + Inherently flat top dot flexo plate to cope with all challenges in corrugated post-print
- + Suitable for all water based printing inks
- + Very good washboard reduction on various substrates e.g. uncoated liners or kraft liners in combination with a C and B flutes



Consistent print results

- + Stable printing of screened designs even when different impression settings are applied
- + Excellent ink transfer, with even ink laydown, thus improved and consistent print results, particularly in solid areas



Simple pre-press and plate making

- + Reduced press setup time, resulting in less start up waste of inks and substrate by up to 40%
- + Mylar and plate material cost savings up to 50% on a single colour separation
- + Saving cost due to combination of halftone images and solids on one plate instead of two plates
- + Inherent flat top dot technology with UV-A tube exposure reducing complexity and steps in the plate making process



Improve productivity and consistency

- + Less dot gain tolerances – on press the flat top dots are less impression sensitive than standard digital dots
- + Quick ready-to-press thus reduced start-up times and waste
- + Higher productivity due to superior stability at increased press speeds

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Technical characteristics	nyloflex® FTL Digital			
	284	318	394	635
Base Material	Polyester film			
Color of raw plate	Red (with black LAMS layer)			
Total thickness (mm) (inch) ¹	2.84 (0.112)	3.18 (0.125)	3.94 (0.155)	6.35 (0.250)
Hardness acc. to DIN 53505	28	28	28	28
Plate hardness (Shore A)	35	34	31	29
Recommended relief depth (mm)	0.9 - 1.2	0.9 - 1.2	1.0 - 1.5	2.0 - 3.0
Tonal range (%)	3 - 95	3 - 95	3 - 95	3 - 95
at screen ruling (l/cm)	32	32	32	24
Fine line width (down to µm)	100	300	300	300
Isolated dot diameter (down to µm)	260	300	400	750
Processing parameters²				
Back exposure (s)	40 - 60	40 - 60	50 - 100	130 - 180
Main exposure (min)	10 - 14	10 - 14	10 - 14	10 - 14
Washout speed (mm/min)	120 - 140	110 - 130	70 - 100	60 - 70
Drying time at 60°C / 140°F (h)	2.5 - 3.0	2.5 - 3.0	3.0	4.0
Post exposure UV-A (min)	10	10	10	10
Light finishing UV-C (min) ³	2	2	2	2
Laser intensity (J/cm ²)	Approx. 15 - 20% higher than for standard nyloflex® digital plates			

Processing information

Suitable equipment	The nyloflex® FTL Digital can be processed with nyloflex® processing equipment and all similar devices and can be used with all laser systems suitable for imaging flexo printing plates.
Printing inks	The nyloflex® FTL Digital is suitable for all water based printing inks
Washout solvents	Especially good results are achieved with nylosolv® washout solvents. nylosolv® can be distilled and reused.
Processing information	A detailed description of the imaging, exposure and finishing steps, as well as detailed information about handling and storing, can be found in the nyloflex® User Guide.
High quality standard	nyloflex® printing plates are manufactured according to DIN ISO 9001, DIN ISO 14001 and DIN ISO 50001 standards and requirements. This process guarantees our customers consistent high quality products and services.

¹) Standard thicknesses currently available – subject to change ²) All processing parameters depend on, among other things, the processing equipment, lamp age and the type of washout solvent. A minimum exposure intensity of ≥ 17 mW/cm² is recommended. For exposure intensities higher than 20 mW/cm² finest vignettes, down to zero, can be easily reproduced. The above mentioned processing times were established under optimum conditions on nyloflex® processing equipment and using nylosolv® washout solvents. Under other conditions the processing times can differ from these; therefore, the above mentioned values are only to be used as a guide. ³) Depending on longevity of the tubes.

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